# Supplement S1: PRISMA checklist

| Section/topic                      | #  | Checklist item  | Reported on page # |  |  |  |  |  |
|------------------------------------|----|---|--------------------|--|--|--|--|--|
| TITLE                              |    |   |                    |  |  |  |  |  |
| Title                              | 1  | Identify the report as a systematic review, meta-analysis, or both.   | 1                  |  |  |  |  |  |
| ABSTRACT                           |    |   |                    |  |  |  |  |  |
| Structured summary                 | 2  | Provide a structured summary including, as applicable: background; objectives; data sources; study eligibility criteria, participants, and interventions; study appraisal and synthesis methods; results; limitations; conclusions and implications of key findings; systematic review registration number. | 1                  |  |  |  |  |  |
| INTRODUCTION                       |    |   |                    |  |  |  |  |  |
| Rationale                          | 3  | Describe the rationale for the review in the context of what is already known.  | 1,2                |  |  |  |  |  |
| Objectives                         | 4  | Provide an explicit statement of questions being addressed with reference to participants, interventions, comparisons, outcomes, and study design (PICOS).  | 2                  |  |  |  |  |  |
| METHODS                            |    |   |                    |  |  |  |  |  |
| Protocol and registration          | 5  | Indicate if a review protocol exists, if and where it can be accessed (e.g., Web address), and, if available, provide registration information including registration number.   | 2                  |  |  |  |  |  |
| Eligibility criteria               | 6  | Specify study characteristics (e.g., PICOS, length of follow-up) and report characteristics (e.g., years considered, language, publication status) used as criteria for eligibility, giving rationale.  |                    |  |  |  |  |  |
| Information sources                | 7  | Describe all information sources (e.g., databases with dates of coverage, contact with study authors to identify additional studies) in the search and date last searched.  |                    |  |  |  |  |  |
| Search                             | 8  | Present full electronic search strategy for at least one database, including any limits used, such that it could be repeated.   |                    |  |  |  |  |  |
| Study selection                    | 9  | State the process for selecting studies (i.e., screening, eligibility, included in systematic review, and, if applicable, included in the meta-analysis).   | 3,4                |  |  |  |  |  |
| Data collection process            | 10 | Describe method of data extraction from reports (e.g., piloted forms, independently, in duplicate) and any processes for obtaining and confirming data from investigators.  | 4,5                |  |  |  |  |  |
| Data items                         | 11 | List and define all variables for which data were sought (e.g., PICOS, funding sources) and any assumptions and simplifications made.   | 2,3,4,5            |  |  |  |  |  |
| Risk of bias in individual studies | 12 | Describe methods used for assessing risk of bias of individual studies (including specification of whether this was done at the study or outcome level), and how this information is to be used in any data synthesis.  | 5                  |  |  |  |  |  |
| Summary measures                   | 13 | State the principal summary measures (e.g., risk ratio, difference in means).   | n.a.               |  |  |  |  |  |
| Synthesis of results               | 14 | Describe the methods of handling data and combining results of studies, if done, including measures of consistency (e.g., I <sup>2</sup> ) for each meta-analysis.  | n.a.               |  |  |  |  |  |

| Section/topic                 | #  | Checklist item   | Reported<br>on page #  |  |  |  |
|-------------------------------|----|--|------------------------|--|--|--|
| Risk of bias across studies   | 15 | Specify any assessment of risk of bias that may affect the cumulative evidence (e.g., publication bias, selective reporting within studies).   | n.a.                   |  |  |  |
| Additional analyses           | 16 | Describe methods of additional analyses (e.g., sensitivity or subgroup analyses, meta-regression), if done, indicating which were pre-specified.   |                        |  |  |  |
| RESULTS                       |    |  |                        |  |  |  |
| Study selection               | 17 | Give numbers of studies screened, assessed for eligibility, and included in the review, with reasons for exclusions at each stage, ideally with a flow diagram.  | 5                      |  |  |  |
| Study characteristics         | 18 | For each study, present characteristics for which data were extracted (e.g., study size, PICOS, follow-up period) and provide the citations.   | 5,6,7,8<br>Supplements |  |  |  |
| Risk of bias within studies   | 19 | Present data on risk of bias of each study and, if available, any outcome level assessment (see item 12).  | n.a.                   |  |  |  |
| Results of individual studies | 20 | For all outcomes considered (benefits or harms), present, for each study: (a) simple summary data for each intervention group (b) effect estimates and confidence intervals, ideally with a forest plot. | n.a.                   |  |  |  |
| Synthesis of results          | 21 | Present results of each meta-analysis done, including confidence intervals and measures of consistency.  | n.a.                   |  |  |  |
| Risk of bias across studies   | 22 | Present results of any assessment of risk of bias across studies (see Item 15).  | n.a.                   |  |  |  |
| Additional analysis           | 23 | Give results of additional analyses, if done (e.g., sensitivity or subgroup analyses, meta-regression [see Item 16]).  | n.a.                   |  |  |  |
| DISCUSSION                    |    |  |                        |  |  |  |
| Summary of evidence           | 24 | Summarize the main findings including the strength of evidence for each main outcome; consider their relevance to key groups (e.g., healthcare providers, users, and policy makers).                     | 8,9,10                 |  |  |  |
| Limitations                   | 25 | Discuss limitations at study and outcome level (e.g., risk of bias), and at review-level (e.g., incomplete retrieval of identified research, reporting bias).  | 10,11                  |  |  |  |
| Conclusions                   | 26 | Provide a general interpretation of the results in the context of other evidence, and implications for future research.  | 11                     |  |  |  |
| FUNDING                       | ·  |  |                        |  |  |  |
| Funding                       | 27 | Describe sources of funding for the systematic review and other support (e.g., supply of data); role of funders for the systematic review.   | 11                     |  |  |  |

n.a. = not applicable From: Moher D, Liberati A, Tetzlaff J, Altman DG, The PRISMA Group (2009). Preferred Reporting Items for Systematic Reviews and Meta-Analyses: The PRISMA Statement. PLoS Med 6(7): e1000097. doi:10.1371/journal.pmed1000097

For more information, visit: www.prisma-statement.org.

| Author, year  | Place of<br>study                            | Unit of<br>analysis,<br>study<br>population<br>and sample<br>size                            | Study type           | Operationalization of green<br>or blue space   | Socioeconomic<br>and<br>sociodemographi<br>c characteristics   | Type of analysis  | Results on environmental inequalities in symbols  |
|---|--|--|----------------------|--|--|---|---|
| Cross-sectional<br>studies blue<br>space                  |  |  |                      |  |  |   |   |
| Wüstemann,<br>2017 (Journal:<br>Ecological<br>Indicators) | Germany, 53<br>major cities                  | Individual<br>level: Adults<br>(N=4588)<br>from the<br>German<br>Socio-<br>Economic<br>Panel | Cross-<br>sectional  | Objective: Urban blue<br>(visible water bodies and<br>courses >1 ha from<br>European Urban Atlas)<br>Operationalization: Euclidian<br>distance to blue space from<br>household; Amount of urban<br>blue in a 500 m buffer<br>around the household.   | Income,<br>education,<br>employment,<br>migration<br>background,<br>German<br>nationality, child<br>in household | Description:<br>Crosstables<br>Bivariate analysis:<br>T-test and F-test to<br>compare mean<br>values of urban blue<br>across<br>socioeconomic<br>groups | Description:         Amount of urban blue: <ul> <li>(with migration background; with children in household; no German nationality; low education (n.l. in middle groups))</li> <li>(no employment, low income (n.l. in middle groups))</li> <li>(no employment, low income (n.l. in middle groups))</li> <li>(on employment, low income (n.l. in middle groups))</li> <li>(on employment, low income (n.l. in middle groups))</li> <li>(on employment, child in middle groups)</li> <li>(with migration background, low income (n.l. in middle groups), no German nationality</li> <li>(employment, child in household)</li> </ul> <li>Bivariate:         <ul> <li>Amount of urban blue :</li> <li>(with migration background, no German nationality, with children in household)</li> <li>n.s. (employment, income, education)</li> <li>Distance to urban blue:</li> <li>(with migration background, no German nationality)</li> <li>n.s. (employment, income, education, with children in household)</li> </ul> </li> |
| Laatikainen,<br>2015                                      | Finland,<br>Helsinki<br>Metropolitan<br>Area | Individual<br>level: Adults<br>between 15<br>and 75 years<br>old (N=2031)                    | Cross-<br>sectional) | Subjective: Location of used<br>aquatic environments were<br>marked by study<br>participants.<br>Operationalisation<br>(objective): Euclidean<br>distance to nearest water,<br>Euclidean distance to aquatic<br>activity point, travel distance<br>to activity point, travel time<br>to activity point | Age, gender,<br>employment<br>status, income,<br>car ownership,<br>home ownership                                | <b>Bivariate analysis</b> :<br>Mann-Whitney U<br>test   | <b>Bivariate:</b><br><u>Distance to nearest water</u><br>$\ominus$ (low income, no car, no home ownership)<br>$\oplus$ (no employment status, age (≥65 years) <sup>1)</sup> )<br>n.s. (gender)<br><u>Distance to aquatic activity point</u><br>$\oplus$ (sex (female) <sup>2)</sup> , no employment status, no car, no home<br>ownership)<br>n.s. (income, age (≥65 years))<br><u>Travel distance to activity point</u><br>$\oplus$ (no employment status, low income, no car, no home<br>ownership)<br>n.s. (age (≥65 years), sex)<br><u>Travel time to activity point</u><br>$\ominus$ (low income)<br>n.s. (employment status, age (≥65 years), sex, car ownership,<br>home ownership)   |

# Supplement S2: Description of studies and reported associations on social inequalities in environmental resources

| Cross-sectional<br>studies green<br>space                           |  |   |                              |  |   |  |  |
|---|--|---|------------------------------|--|---|--|--|
| Wüstemann,<br>2017 (Journal:<br>Landscape and<br>Urban<br>Planning) | Germany, 53<br>major cities  | Individual<br>level: Adults<br>(N=4588)<br>from the<br>German<br>Socio-<br>Economic<br>Panel                                | Cross-<br>sectional          | Objective: Green urban<br>areas and forests (land use<br>categories from European<br>Urban Atlas)<br>Operationalisation: Euclidian<br>distance to green from<br>household; Amount of urban<br>green in a 500 m buffer<br>around household                        | Income, age,<br>gender,<br>education,<br>employment,<br>migration<br>background,<br>German<br>nationality | Description:<br>Crosstables<br>Multivariate<br>analysis: multiple<br>linear regression<br>adjusted for city  | Description: $\underline{Amount of green:}$ $\ominus$ (with migration background, low income (n.l. in middle groups), low education, no employment, no German nationality) $\oplus$ (age ( $\geq 65$ years))         = (gender) $\underline{Distance to green:}$ $\ominus$ (low income (n.l. in middle groups), no employment, low education (n.l. in middle groups), gender (female) $\oplus$ (age ( $\geq 65$ years) (n.l. in middle groups), no German nationality)         = (migration background) <b>Multivariate:</b> <u>Amount of green space:</u> $\ominus$ (low income, low education) $\oplus$ (age ( $\geq 65$ years), children in household)         n.s. (migration background, German nationality, no employment) <b>Distance to green:</b> n.s. (for all socioeconomic measures) |
| Zandieh, 2017   | UK (city of<br>Birmingham)   | Individual<br>level: Adults<br>≥65 years<br>(n=173)   | Cross-<br>sectional<br>study | Objective: Green space<br>(land use data comprising<br>public parks and gardens,<br>natural green spaces,<br>amenity green spaces)<br>Operationalisation:<br>Percentage of green space in<br>a 2 km buffer around the<br>home address.                           | Ethnicity   | <b>Bivariate:</b> Pearson's<br>correlation<br>coefficient  | Bivariate:<br><u>Percentage of green space:</u><br>⊖ (black and minority ethnic groups)  |
| Markevych,<br>2017  | Germany (city<br>of Munich<br>Leipzig, Bad<br>Honnef and<br>Wesel) | Individual<br>level: Parents<br>(Munich<br>(n=1865);<br>Leipzig<br>(n=337); Bad<br>Honnef<br>(n=155);<br>Wesel<br>(n=1439)) | Cross-<br>sectional<br>study | <b>Objective:</b> Green space<br>based on remote sensing<br>data (Normalized differenced<br>vegetation index (NDVI) and<br>tree cover)<br><b>Operationalisation:</b> Mean<br>NDVI and percent of tree<br>cover in a 500 and 1000 m<br>buffer around home address | Household<br>income (individual<br>level); German<br>Deprivation index<br>on municipality<br>level        | Multivariate: linear<br>regression analysis<br>by city. Cities are<br>considered as effect<br>modifiers on the<br>pathway between<br>SEP and green<br>space. Simultaneous<br>consideration of<br>income and<br>deprivation index<br>adjusted further for<br>number of children<br>and study type | Multivariate:         MUltivariate:         MULi (both buffers) <ul> <li>(low income (Munich, Leipzig); high deprivation (Munich, Wesel))</li> <li>(low income (Wesel))</li> <li>n.s. (income (Bad Honnef); high deprivation (Bad Honnef, Leipzig))</li> </ul> Tree cover (both buffers) <ul> <li>(low income (Munich); high deprivation (Munich)</li> <li>(high deprivation (Wesel))</li> <li>n.s. (income (Leipzig, Bad Honnef, Wesel); high deprivation (Bad Honnef, Leipzig))</li> </ul>   |

| Ecological<br>studies green<br>space |                             |  |                     |  |   |   |   |
|--------------------------------------|-----------------------------|--|---------------------|--|---|---|---|
| Hoffimann,<br>2017                   | Portugal (city<br>of Porto) | Aggregated<br>level: census<br>tracts<br>(N=2064)  | Ecological<br>study | Objective: Public green<br>spaces (N=55) from the<br>Porto city council<br>Operationalisation:<br>Availability of green space<br>(Yes/No) within 800 m road<br>distance from<br>neighbourhood centroid;<br>Mean distance to green<br>spaces within 800 m;<br>Number of green spaces<br>within 800 m; Amount of<br>green spaces per inhabitant<br>within 800 m. | Deprivation index   | Description:<br>Crosstables<br>Bivariate: ordinal<br>regression<br>Multivariate:<br>Ordinal regression<br>(Dependent<br>variable:<br>Deprivation Index;<br>Independent<br>variables: Green<br>space variables and<br>quality indicators of<br>green spaces,<br>(environmental<br>quality, amenities,<br>safety) | Description:         Availability of green space (yes vs. no) within 800 m road distance         ⊖ (high deprivation)         Number of areen spaces:         ⊖ (high deprivation (n.l. in middle groups))         Distance to green spaces:         ⊖ (high deprivation(n.l. in middle groups))         Amount of green spaces per inhabitant:         ⊖ (high deprivation(n.l. in middle groups))         Amount of green spaces per inhabitant:         ⊖ (high deprivation(n.l. in middle groups))         Bivariate:         Availability of areen space         ⊖ (high deprivation)         Number of green spaces:         ⊖ (high deprivation)         Distance to green spaces:         ⊖ (high deprivation)         Distance to green spaces per inhabitant:         n.s. (Deprivation Index)         Multivariate:         Availability of green spaces:         n.s. (deprivation index)         Number of green spaces:         n.s. (deprivation index)         Distance to green spaces:         ⊖ (high deprivation)         Amount of green spaces:         n.s. (deprivation)         Must per of green spaces:         ∩ (high deprivation)         Amount of green spaces:         ∩ (high deprivation) </td |
| Kabisch, 2014                        | Germany (city<br>of Berlin) | Aggregated<br>level: sub-<br>districts<br>(n=60); three<br>spatial<br>clusters from<br>cluster<br>analysis<br>(n=28; n=9;<br>n=23) | Ecological<br>study | <b>Objective:</b> Green space per<br>sub-district (land use data<br>comprising forests, parks,<br>cemeteries, allotment<br>gardens, brownfields with<br>vegetation)<br><b>Operationalisation:</b><br>Percentage per sub-district   | Percentage of<br>immigrants (three<br>spatial cluster<br>categories);<br>percentage of<br>individuals ≥65<br>years (three<br>spatial cluster<br>categories) | Description:<br>Crosstables<br>(prevalence of<br>urban green and the<br>two socioeconomic<br>factors across the<br>three clusters) ;<br>Figures (Lorenz<br>curve based on<br>calculation of the<br>GINI coefficient   | Description crosstable:         Percentage of green space: <ul> <li>(high amount of immigrants (n.l. in middle groups))</li> <li>(age (high amount of inhabitants ≥65 years))</li> </ul> Description Lorenz curve:         Percentage of green space: <ul> <li>(high amount of immigrants)</li> <li>(age (high amount of inhabitants ≥65 years))</li> </ul>   |
| Kabisch, 2016                        | Germany (city<br>of Berlin) | Aggregated<br>level: sub-<br>districts<br>(n=60)   | Ecological<br>study | <b>Objective:</b> Natural areas<br>(land use data comprising<br>forests, urban green and<br>parks, cemeteries, allotment<br>gardens, waterbodies (lakes,<br>rivers, canals)  | Social status index<br>of parents;<br>percentage of<br>children living in<br>single parent<br>households;   | <b>Bivariate:</b><br>Spearman's<br>correlation<br>coefficient   | Bivariate:         Percentage of natural areas         n.s. (social status index, non-German, single parent households) $m^2$ of natural areas per inhabitant $\ominus$ (non-German)         n.s. (social status index, single parent households)   |

|               |                                       |   |                     | <b>Operationalisation:</b><br>Percentage of natural areas,<br>m <sup>2</sup> of natural areas per<br>inhabitant, availability<br>(percentage of inhabitants<br>living a maximum of 300 m<br>distance away from a natural<br>area) | Percentage of<br>children with<br>background other<br>than German  |  | <u>Availability of natural areas</u><br>⊖ (low social status)<br>n.s. (non-German, single parent households)   |
|---------------|---------------------------------------|---|---------------------|---|--|--|--|
| Zandieh, 2017 |                                       | Aggregated<br>level:<br>Combination<br>of electoral<br>wards (n=2;<br>Low<br>deprivation<br>area vs. high<br>deprivation<br>area) | Ecological<br>study | Objective: Green space<br>(land use data comprising<br>public parks and gardens,<br>natural green spaces,<br>amenity green spaces)<br>Operationalisation:<br>Percentage of green space<br>per area                                | Deprivation Index  | Bivariate: t-test  | Bivariate:<br><u>Percentage of green space:</u><br>⊖ (high deprivation)  |
| Padilla, 2016 | France (Nice<br>metropolitan<br>area) | Aggregated<br>level: census<br>tracts<br>(N=236)  | Ecological<br>study | Objective: Green space (land<br>use data comprising natural<br>areas)<br>Operationalisation:<br>Percentage of green space<br>per census tract   | Deprivation Index  | <b>Bivariate:</b><br>Spearman's<br>correlation<br>coefficient  | Bivariate:<br><u>Percentage of green space:</u><br>⊖ (high deprivation)  |
| Lakes, 2014   | Germany (city<br>of Berlin)           | Aggregated<br>level:<br>Planning units<br>(N=434)   | Ecological<br>study | Objective: Green space<br>based on remote sensing<br>data (Normalized differenced<br>vegetation (NDVI) index<br>Operationalization:<br>Aggregated mean NDVI per<br>planning unit  | Deprivation Index  | <b>Bivariate:</b> Pearson's correlation coefficient  | Bivariate:<br><u>Mean NDVI:</u><br>⊖ (high deprivation)  |
| Flacke, 2016  | Germany (city<br>of Dortmund)         | Aggregated<br>level:<br>neighbourho<br>ods (n=170)  | Ecological<br>study | Objective: green space (land<br>use data comprising parks<br>and forests >1 ha)<br>Operationalisation:<br>Percentage of green space<br>including green spaces in a<br>400 m buffer around the<br>neighbourhood                    | Percentage of<br>people of the<br>total<br>neighbourhood<br>population<br>receiving<br>unemployment<br>benefits or social<br>welfare | Bivariate:<br>Spearman's<br>correlation<br>coefficient   | Bivariate:<br><u>Percentage of green space:</u><br>⊖ (higher amount of people receiving unemployment benefits<br>or social welfare)  |
| Schüle, 2017  | Germany (city<br>of Munich)           | Aggregated<br>level:<br>neighbourho<br>ods (n=108)  | Ecological<br>study | Objective: green space (land<br>use data comprising public<br>parks and forests)<br>Operationalisation:<br>Percentage of green space<br>within and around<br>neighbourhoods (five buffers   | Deprivation index  | Multivariate: Log-<br>gamma regression<br>from the group of<br>generalized linear<br>models adjusted for<br>population density | Multivariate:         Percentage of green space within and around neighbourhoods         ⊖ (high deprivation (200 m - 1000 m buffer)         n.s. (deprivation index (no buffer)         Percentage of green space around neighbourhood centroids         ⊖ (high deprivation (for all radii)) |

|             |                           |   |                     | from 200 m up to 1000 m):<br>Percentage of green space<br>around neighbourhood<br>centroids (1000 m, 1500 m,<br>2000 m, 2500 m, and 3000 m<br>radii)             |  |   |  |
|-------------|---------------------------|---|---------------------|--|--|---|--|
| Gallo, 2015 | UK (city of<br>Newcastle) | Aggregated<br>level:<br>comparison<br>of two parks<br>in a deprived<br>and in an<br>affluent area | Ecological<br>study | <b>Objective:</b> Observational<br>Park Audit Tool<br><b>Operationalisation:</b><br>Presence and density of<br>planting  | Two<br>socioeconomic<br>disparate areas<br>were selected<br>based on Indices<br>of Multiple<br>Deprivation | <b>Bivariate:</b> Chi2 test<br>to compare<br>distributions<br>between the two<br>parks  | Bivariate:<br><u>Presence and density of planting</u><br>n.s. (deprived vs. affluent park) |
| Cohen, 2012 | France (city<br>of Paris) | Aggregated<br>level: census<br>blocks (n=282<br>with<br>botanical<br>information)                 | Ecological<br>study | <b>Objective:</b> FLORA database<br>(n=282 polygons containing<br>more than three botanical<br>species and vegetal species<br>which more than two<br>occurrences | Mean household<br>income   | Description:<br>descripted in text<br>(no tables, figures,<br>etc. provided)<br>Bivariate: Linear<br>Correlation analysis<br>(scatter plot) | Bivariate:<br><u>Number of species:</u><br>n.s. (household income)                         |

"=" = no social unequal distribution of green space

n.s. = not significant

"⊖" = Hypothesis supported: low SEP groups have lower resources available or greater distances to resources compared to high SEP groups / significant association in correlation or multivariate analysis (p-value < 0.05)

"= Hypothesis challenged/not supported: low SEP groups have more resources available or lower distances to resources compared to high SEP groups / significant association in correlation or multivariate analysis (p-value < 0.05)

n.l. = non-linear

<sup>1)</sup> age: old people versus people of young/middle age as reference

<sup>2)</sup> sex: females versus males as reference

## Supplement S3: Search terms for Web of Science and Scopus

#### Web of Science

TS=(disadvantaged OR disadvantage OR deprived OR social OR socio\* OR vulnerable OR vulnerability OR psychosocial OR psycho-social OR socio-economic OR deprivation OR socio-demographic)

### AND

TS=("green space" OR "green spaces" "open space" OR "open spaces" OR "natural space" OR "natural spaces" OR "green environment" OR "green environments" OR "green area" OR "green areas" OR greenery OR greenness OR "urban green" OR "public green" OR "neighbourhood green" OR "neighborhood green" OR "natural environment" OR "natural environments" OR park OR parks OR forest OR forests OR "urban park" OR "urban parks" OR "city park" OR "city parks" OR "park access" OR "public garden" OR "public gardens" OR "blue space" OR "blue spaces" OR "blue area" OR "blue areas" OR beach OR beaches OR lake OR lakes OR river OR rivers OR sea OR "recreational space" OR "recreational spaces" OR "recreational area" OR "recreational areas" OR outdoor)

### AND

TS=(inequality OR inequity OR inequities OR inequalities OR unequal OR "environmental justice" OR "environmental injustice") AND PY=(2010-2017)

*Items selected manually: Results were additionally restricted by language (English) and document types (Article)* 

#### Scopus

ALL(disadvantaged OR disadvantage OR deprived OR social OR socio\* OR vulnerable OR vulnerability OR psychosocial OR psycho-social OR socio-economic OR deprivation OR socio-demographic) AND TITLE-ABS-KEY("green space" OR "green spaces" "open space" OR "open spaces" OR "natural space" OR "natural spaces" OR "green environment" OR "green environments" OR "green area" OR "green areas" OR greenery OR greenness OR "urban green" OR "public green" OR "neighbourhood green" OR "neighborhood green" OR "natural environment" OR "natural environments" OR park OR parks OR forest OR forests OR "urban park" OR "urban parks" OR "city park" OR "city parks" OR "park access" OR "public garden" OR "public gardens" OR "blue space" OR "blue spaces" OR "blue area" OR "blue areas" OR beach OR beaches OR lake OR lakes OR river OR rivers OR sea OR "recreational space" OR "recreational spaces" OR "recreational area" OR "recreational areas" OR outdoor) AND TITLE-ABS-KEY(inequality OR inequity OR inequities OR inequalities OR unequal OR "environmental justice" OR "environmental injustice") AND LANGUAGE(english) AND PUBYEAR > 2009 AND PUBYEAR < 2018 AND DOCTYPE(ar) AND NOT INDEX (medline)